

Elezanumab

Chemical Properties

CAS No. : 1791416-49-3

Formula:

Molecular Weight: 143.43 kDa

Storage: Store at low temperature
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Elezanumab

Biological Description

Description	Elezanumab(ABT-555) is a potent human anti-RGMa monoclonal antibody. Elezanumab exerts its inhibitory effect on RGMa-mediated BMP signaling through the SMAD1/5/8 pathway, with an IC50 of approximately 97 pM. Elezanumab promotes neuroregeneration, neuroprotection, and neural restoration in models of neuronal injury and demyelination. Elezanumab promotes the growth of corticospinal axons into spinal gray matter and enhances serotonergic innervation in the ventral horn, forming synaptic connections in the caudal part of cervical lesions.
Targets(IC50)	TGF-beta/Smad,RGM
In vivo	Elezanumab (1-10 mg/kg; IV; weekly; 5 times) promotes axonal regeneration and prevents axonal regeneration in the female Lewis rat model of optic nerve crush and optic neuritis Retinal nerve fiber layer degeneration.[1] Elezanumab (0.01, 0.1, 1, 10 mg/kg; IV; once weekly; 3 times) promotes axonal regeneration in a spine-targeted female Lewis rat model of experimental autoimmune encephalomyelitis (EAE) and remyelination, reducing the area of inflammatory lesions and improving functional recovery.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.007 mL	0.0349 mL	0.0697 mL
5 mM	0.0014 mL	0.007 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 mL	0.007 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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